

CLAIMS

*Sub-
a1*

1. Balancing device (4, 4', 4'', 14, 24, 34, 44) for a wheel, comprising a single balancing weight (5, 15, 25, 35, 45) enclosed in a case (6, 16, 26, 36, 46) the surface of which is adapted to be firmly fixed to a tyre and which is made of a material having a similar colour to that of a tyre. *NA* *INDEF*

2. Device according to claim 1, characterized in that the weight is made of lead or a lead alloy.

3. Device according to claim 1, characterized in that the weight is made of iron alloy.

4. Device according to claim 1, characterized in that the weight is made of zinc and aluminium alloy.

5. Device according to claim 1, characterized in that the weight is made of plastic material. *claim 1*

6. Device according to ~~any one of claims 1 to 5~~, characterized in that said surface (14A, 44A) includes a convex section. *claim 1*

7. Device according to ~~any one of claims 1 to 5~~, characterized in that said surface (4A, 24A) includes a concave section. *claim 1*

8. Device according to ~~any one of claims 1 to 5~~, characterized in that the surface (34A) is at least approximately a portion of a cylinder. *claim 1*

9. Device according to ~~any one of claims 1 to 8~~, characterized in that the weight has an approximately rectangular section. *claim 1*

10. Device according to ~~any one of claims 1 to 9~~, characterized in that the case has an approximately constant thickness. *claim 1*

11. Device according to ~~any one of claims 1 to 10~~, characterized in that the case is made of flexible material. *claim 1*

12. Device according to ~~any one of claims 1 to 11~~, characterized in that the case includes sections which occupy passages (60) passing through the weight. *claim 1*

14. Device according to ~~any one of claims 1 to 13,~~
characterized in that the surface is delimited by borders
which define edges (80). claim

15. Device according to ~~any one of claims 1 to 14,~~
characterized in that said surface is pre-coated with
glue (90).

16. Device according to ~~any one of claims 1 to 14,~~
characterized in that said surface is provided with a
tape (95) the surfaces of which are coated with adhesive.

17. Device according to ~~any one of claims 1 to 16,~~^{claim}
characterized in that the case is black. *claim 1*

18. Device according to ~~any one of claims 1 to 16,~~
characterized in that the case is white.

19. Device according to ~~any one of claims 1 to 16;~~
characterized in that the case is green.

20. Wheel including a rim (2, 12, 22, 32, 42) having an axis (Z-Z), a tyre (3, 12, 23, 33, 43) and a balancing device (4, 14, 24, 34, 44) according to any one of claims 1 to 19 including a single balancing weight (5, 15, 25, 35, 45) enclosed in a case (6, 16, 26, 36, 46) a surface of which (4A, 14A, 24A, 34A, 44A) is fixed firmly to a surface (3A, 13A, 23A, 33A, 43A) of a side of the tyre and which is made of a material having a colour similar to that of the tyre.

21. Wheel according to claim 20, characterized in that it has at most one balancing device (4) per side.

22. Wheel according to claim 20 or ~~claim 21~~, characterized in that the balancing device (4) is arranged along a side of the tyre, close to the rim.

23. Wheel according to ~~any one of claims 20 to 22,~~
characterized in that the device (4) is arranged radially
between the rim and a section of maximum width (3B) of
~~the tyre.~~

24. Wheel according to ~~any one of claims 20 to 23~~,
characterized in that the balancing device (14) radially
runs along the inside of a side wall (13A) of the tyre.

25. Wheel according to ~~any one of claims 20 to 23~~,
characterized in that the balancing device (24) radially
runs along the outside of a side wall of the tyre.

26. Wheel according to ~~any one of claims 20 to 23~~,
characterized in that the balancing device (34) is
engaged in a circumferential groove (33A) provided in the
tyre.

27. Wheel according to ~~any one of claims 20 to 23~~,
characterized in that the balancing device (44) is
engaged in a circumferential groove provided by the tyre
and an edge of the rim.

28. Wheel according to ~~any one of claims 20 to 27~~,
characterized in that the balancing device is firmly
fixed by gluing.